

AACTAGATGCAGCACCACAATCACTACCACGTACCAATCATATACCAATAATGTACTAATAATGTACCAATAACTATGGTTTATAAGATGGTGCATTAAATCAATATTAGTTCCTTATATTA 125
M V S F K S I L V P Y I

CACTCTTTTAAATGAGCGTGTCTTTTCAAGTGATACCGATCCCGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGGAACTGTTGGGCCAGTGAAGCTGGTGGGCTAGTGAAGCT 250
Repeat Sequences
T L F L W S G A V F A S D T D P E A G G P S E A G G P S G T V G P S E A G G P S E A

GGTGGGCTAGTGGAACTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGGAACTGGTGGGCTAGTGAAGCT 375
Repeat Sequences
G G P S G T G W P S E A G G P S E A G G P S E A G G P S E A G G P S G T G W P S G T

TGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCTGGTGGGCTAGTGAAGCT 500
Repeat Sequences
G W P S E A G W S S E R F G Y Q L L P Y S R R I V I F N E V C L S Y I Y K H S V W

TATTGGAACGAGATAGGGAACGATGGTCATAAAGACTACATTGAAGAAAAACCAAGGAGAAGAATAAATTGAAAAAGCAATTGGAAAAATGTTTCTGGAACAATATCCCTTATGAAGAAA 625
I L E R D R V N D G H K D Y I E E K T K E K N K L K K E L E K C F P E Q Y S L M K K

GAAGAATTGGCTAGATATTTGATAATGCATCCACTATCTCTTCAAAATATAAGTTATTGGTTGATGAATATCAAAAGGCTATGGTACATTGGAAGGTCAGCTGCTGATAATTTGACCA 750
E E L A R I F D N A S T I S S K Y K L L V D E I S N K A Y G T L E G P A A D N F D H

TTCCGTAATATATGGAAGCTATTGTACTTAAGATATGTTATATATTGTGACTTATTATTACAACATTAATCTATAAATCTATTATGACAATACCGTTAATGATATCAAGAAAAATTTG 875
F R N I W K S I V L K D M F I Y C D L L L Q H L I Y K F Y Y D N T V N D I K K N F

ACGAATCCAATCTAAGCTTTAGTTTGGGGATAAGATCACTAAAAAGGATGGAGATTATAACACTCATTTTGAGGACATGATTAAGGAGTTGAATAGTGCAGCAGAAGAATTTAATAAAAT 1000
D E S K S K A L V L R D K I T K K D G D Y N T H F E D M I K E L N S A A E E F N K I

GTTGACATCATGATTTCCAACATTGGGATTATGATGAGTATGACAGTATTGCAAGTTTCAACCATTTCTTTCAATGATCACCAGAAATCACTAAAATCACCAGGTTTCTAATGTAATAATTCC 1125
V D I M I S N I G D Y D E Y D S I A S F K P F L S M I T E I T K I T K V S N V I I P

TGGAATTAAGGCACTAAGTTTAAACGTTTTTAAATTTTATTACAAAATAGATGTAATACCAGATGTATACATTATTATATATTACAAAATTTACACATTATTTATGTATGAACGAACGAACAT 1250
G I K A L T L T V F L I F I T K

Fig. 1A

<u>CTCAGTCTTAAATGAAGAAATGGGATAAATAGAAATAGATTAAAGTAACATGAGAAAGATGAATATAATATTAGAATATGAAATTTAACAGAAATAAAATGAAGTAAAGAGTGATTTTGT</u>	1375
<u>AATAATTATAATAAATTAGTATACAATGATTATATTACAGATGACTATTGATTATTGTATCAATTAATATTGATTATTATGATATCATATATGTATATGTTAATGATTGATTGTATACGT</u>	1500
<u>TGTGAATATGTTATATAATGACATACTATAATAATTAATATAATGTAGAGGATATTTTTTAATAGTATTTAATGAATATTATAGTTATAATTATAATAATGTAGATAAAATGACATTAATTT</u>	1625
<u>GAATGTTAAATGAAATGTATGTAATAATATGATTATTATAATCTGAATTGATTAATAATATAATTTCTACAATTAATTTTGTAAATTATAATAATGATTATATTAACTTTGAATTATT</u>	1750
<u>ATAAATAATATTATACTTCATTAAATTTTTCACATAAATTCGAAATTTATCTTATCTTAATGTTATCCAATTTACACATCTTCTTCATTACAATATTTTTTACTAATCCTGTATGC</u>	1875
<u>TCATATTCATATTCCTTAGAAATATAACGAAATTAGATGTAACCTCGCCACTTACAAGTAACTACCATCAATATAATAATGAATACCATTGATGCCGTATATCTTTATATTTTTATC</u>	2000
<u>ATATTTATTTTGTGATTATTCATTCAATGATGAGAGAAATAATAGCAGAAAGATCCTTCTATAGAAACATAAAATCAATTAATACTGGATTATTATGTTGCAAGTATA</u>	2125
<u>GATGTTAAATCAATAACACTACCGAGTTGGTAATTTAGCATTGTCATCAAAATCAATTATATAATCAGAAATTTTGATTTTATCAATTTTATTCGGATGTGATAATTTATTTGTTCTGATTCAT</u>	2250
<u>CGATCATGTATACAAATACTATTGTTAAAGGTTCCCTATCCTTATAATTAAGTGCCCAATAAGATTGGCATTAAATTACATTAGTAGTGTGTATTGTAATAGTATCATTAGTGGTACTGACA</u>	2375
<u>GTGTTATAGGTTTTGATTCCATAATGAACATCATTTTTATCTACACAATACA</u>	2430

Fig. 1B

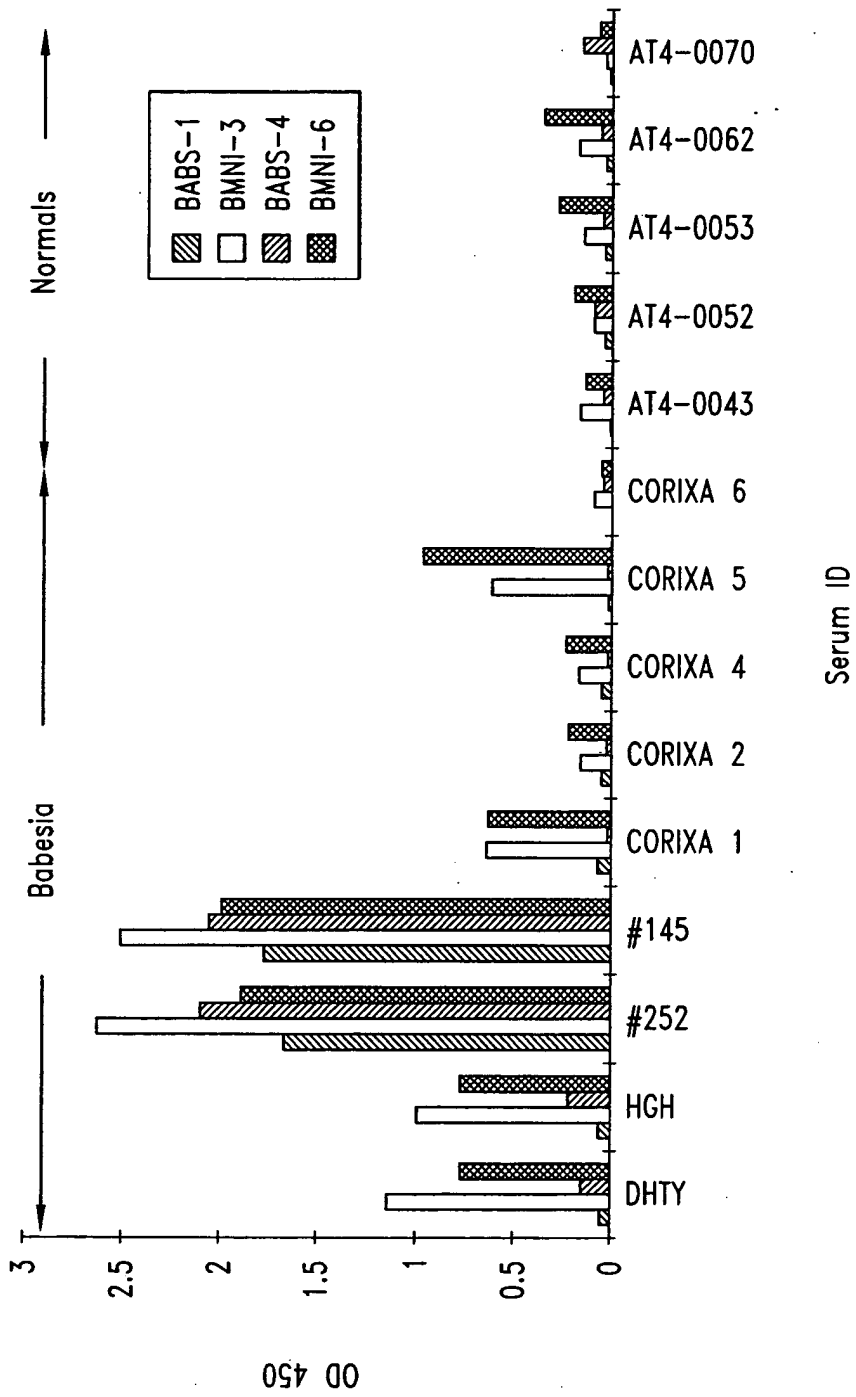


Fig. 2A

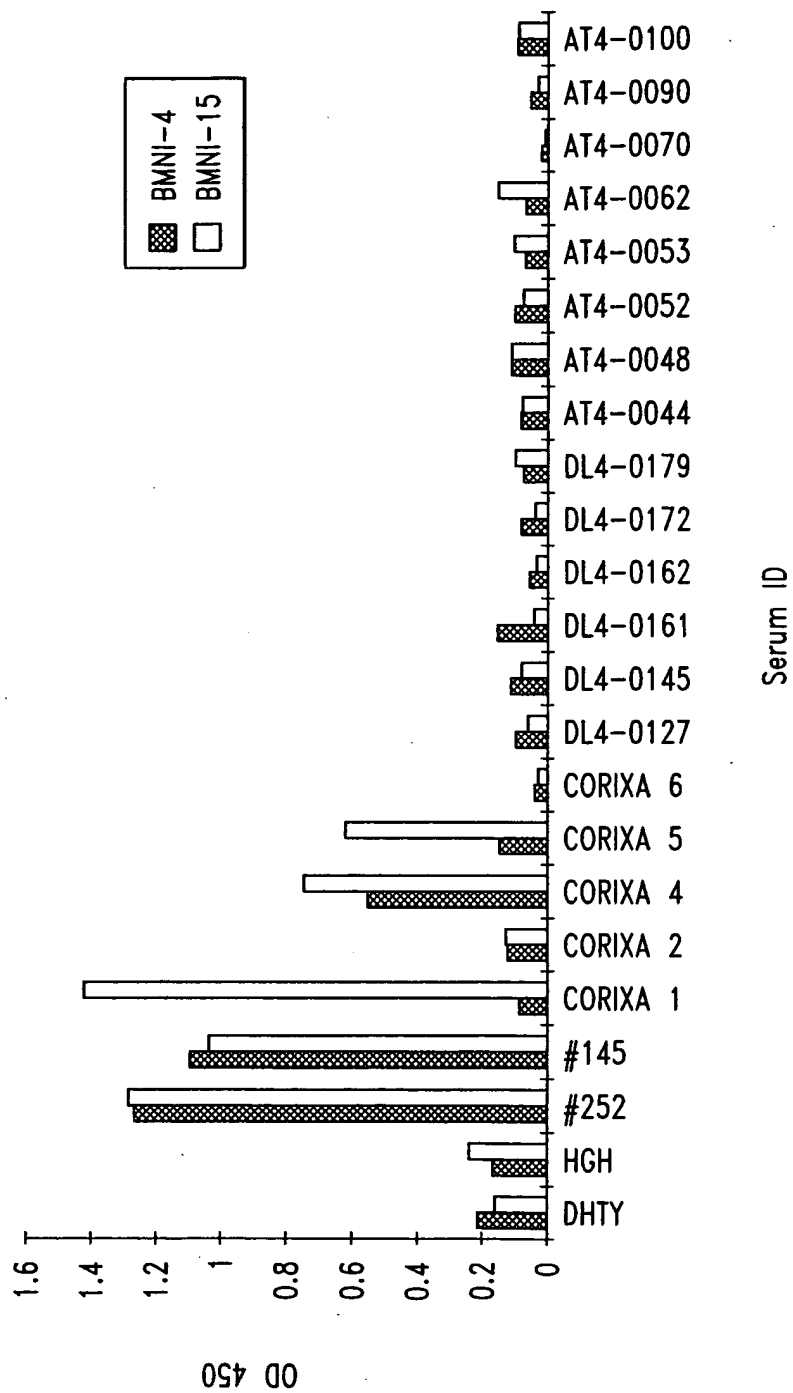


Fig. 2B

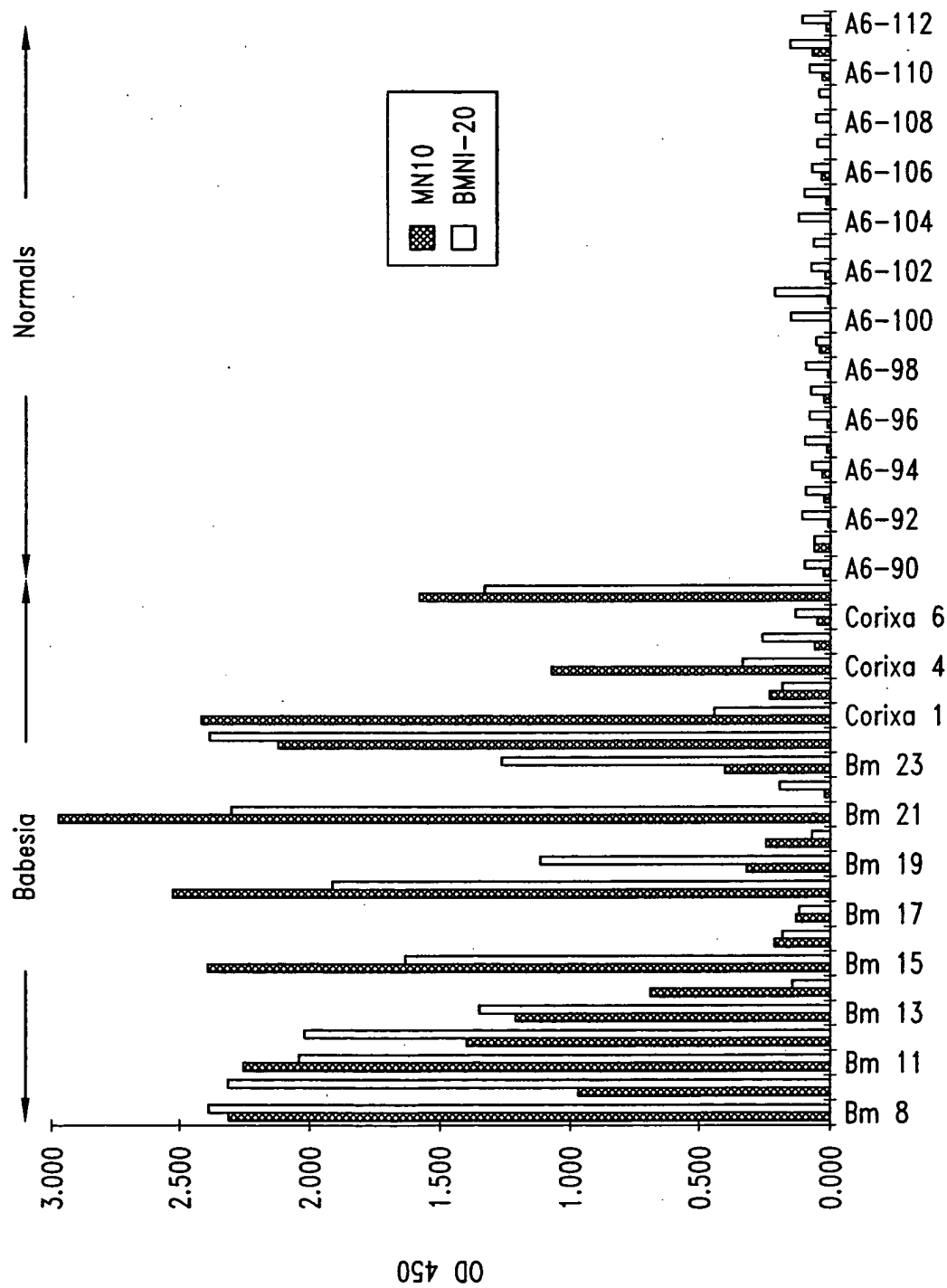


Fig. 3

Serum ID

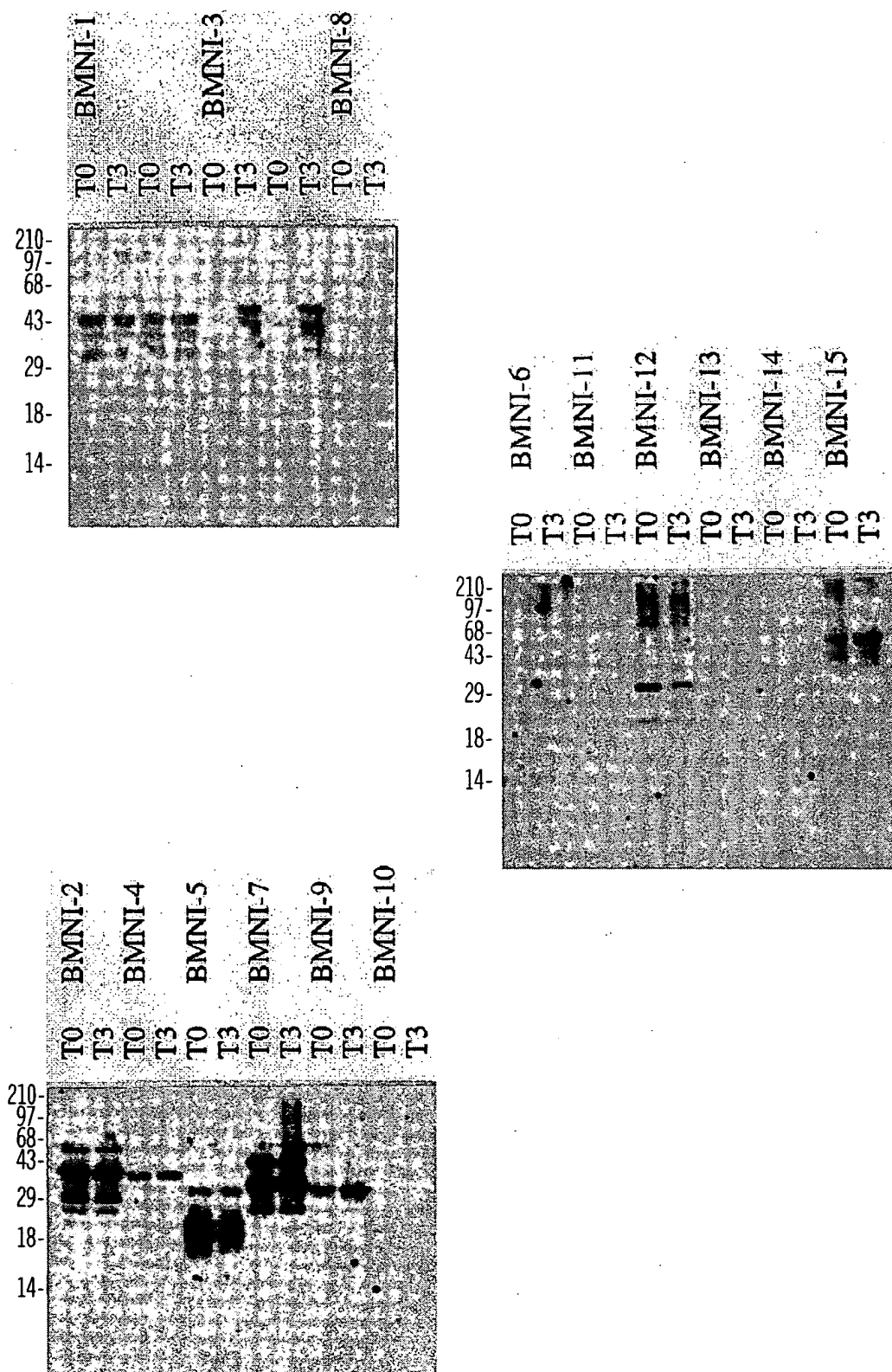


Fig. 4

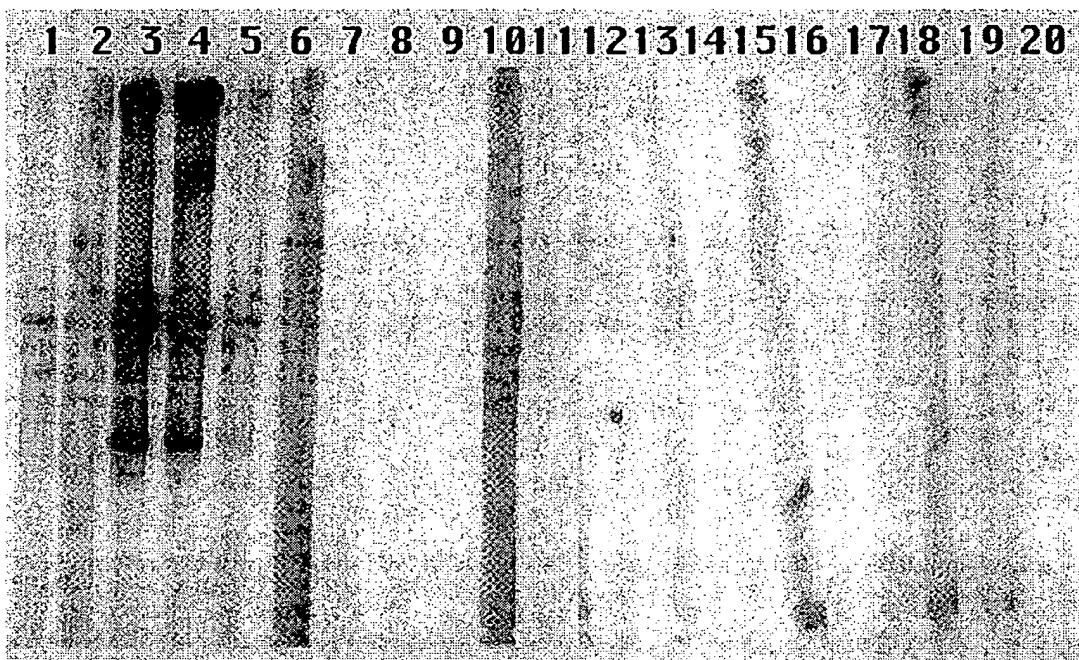


Fig. 5

BI254	..... ..AGDTDREA GGPSGTVGP.	51	100
BI1053	..... ..GDTDREA GGPSGTVGP.		
BI2227	..... ..AGDTDREA GGPSGTVGP. .... .SEAGGPSEA		
BI2259	..... ..AGDTDREA GGPSGTVGP. .... .SEAGGPSEA		
BI2253	..... ..EA GGPSGTVGP. .... .SEAGGPSEA		
GRAC,S	..... ..GDTDREA GGPSGTVGP. .... .SEAGG PSEAGGPSEA		
FISH,S	..... ..AGDTDREA GGPSGTVGPS SAGGPSEAGG PSEAGGPSEA		
MN1HAM	..... ..AGDTDREA GGPSGTVGP. .... .SEA		
MN2	..... ..AGDTDREA GGPSGTVGP.		
MN1PAT	..... ..AGDTDREA GGPSGTVGP. .... .SEA		
Bmni-6	YITLFLMSGV VFAGDTDREA GGPSGTVGP. .... .SEA		
MN3	..... ..AGDTDREA GGPSGTVGP. .... .SEAGGPSEA		
MR.T	..... ..AGDTDREA GGPSGTVGP. .... .SEAGGPSEA		
BI254	...SEAGGPS EAGGPSGTVG PSEAGGPSEA GGPSGTGWPS EAGGPSGTVG		
BI1053	...SEAGGPS EAGGPSGTVG PSEAGGPSEA GGPSGTGWPS EAGGPSGTVG		
BI2227	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
BI2259	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
BI2253	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
GRAC,S	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
FISH,S	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
MN1HAM	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
MN2	...SEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
MN1PAT	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
Bmni-6	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSHAGGPS EAGGPSGTGW		
MN3	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
MR.T	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW	101	150
BI254	PSEAGGP... ..S EAGGPSGTGW PS GTGW PSEV GWP SERFGYQ		
BI1053	PSEAGGP... ..S EAGGPSGTGW PS GTGW PSEV GWP SERFGYQ		
BI2227	PSEAGWPSEA GGPSGTGWPS EAGWPSEAGW PSEAGWPSEA GW.....		
BI2259	PSEAGWPSEA GGPSGTGWPS EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		
BI2253	PSEAGWPSEA GGPSGTGWPS EAGWPSEAGW PSEAGWPSEA GWP SER....		
GRAC,S	PSEAGWPSEA GGPSGTGWPS EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		
FISH,S	PSEAGWPSEA GGPSGTGWPS EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		
MN1HAM	PSEAGWP... ..S EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		
MN2	PSEAGWP... ..S EAGWPSEAGW PSEAGWPSEA GW.....		
MN1PAT	PSEAGWP... ..S EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		
Bmni-6	PSEAGWP... ..S EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		
MN3	PSEAGWP... ..S EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		
MR.T	PSEAGWP... ..S EAGWPSEAGW PSEAGWPSEA GWP SERFGYQ		

Fig. 6A

	151	177
BI254	LLWYSRRIVI .....	.....
BI1053	LLWYSRRIVI .....	.....
BI2227	.....	.....
BI2259	LLWYSRRIVI .....	.....
BI2253	.....	.....
GRAC,S	LLWYS.....	.....
FISH,S	.....	.....
MN1HAM	LLWYSRRIVI .....	.....
MN2	.....	.....
MN1PAT	LLWYS.....	.....
Bmni-6	LLWYSRRIVI FNEIYLSHIY	EHSVMIL
MN3	LLWYSR....	.....
MR.T	LLWYSR....	.....

Fig. 6B